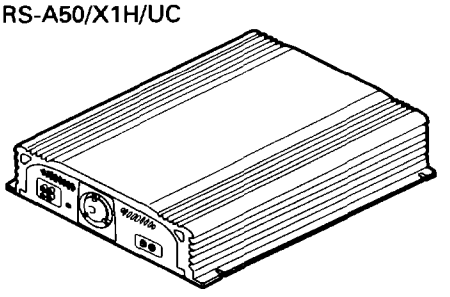
Service Manual

PIONEER
The Art of Entertainment

RS-A50/X1H/UC



ORDER NO.
CRT1826

OPTICAL DIGITAL REFERENCE SYSTEM CLASS A BRIDGEABLE 4-CH POWER AMPLIFIER

RS-A50 X1H/UC

BRIDGEABLE FOUR-CHANNEL POWER AMPLIFIER

GM-A5040 X1H/UC

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1. SAFETY INFORMATION

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer.
Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty.
If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).
When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

2. SPECIFICATIONS

Power source	14.4 V DC (10.8 — 15.6 V allowable)
Grounding system	Negative type
Current consumption	38 A (4 Ω Continuous power)
	1.5 A (4 Ω, No signal)
Average current consumption*	10 A (4 Ω, 4 channels)
	17 A (4 Ω, 2 channels)
Fuse	Main unit: 20 A x 2
Dimensions	250 (W) × 57.5 (H) × 310 (D) mm
	[9-7/8 (W) × 2-1/4 (H) × 12-1/4 (D) in.]
Weight	4.7 kg (10.3 lbs.)
Maximum power output	100 W × 4 / 300 W × 2
	300 W × 1 + 100 W × 2
Continuous power output	
	50 W × 4 (at 14.4 V, 4 Ω, 20 Hz — 20 KHz, 0.04% THD)
	150 W × 2 (at 14.4 V, 4 Ω, 20 Hz — 20 KHz, 0.4% THD)
	75 W × 4 (at 14.4 V, 2 Ω, 20 Hz — 20 KHz, 0.4% THD)
	50 W × 4 (at 12 V, 4 Ω, 20 Hz — 20 KHz, 0.04% THD)
	120 W × 2 (at 12 V, 4 Ω, 20 Hz — 20 KHz, 0.4% THD)
	60 W × 4 (at 12 V, 2 Ω, 20 Hz — 20 KHz, 0.4% THD)
Frequency response	7 — 85 kHz (+0 dB, −1 dB)
Distortion	0.0015% (10 W, 1 kHz)
Signal-to-noise ratio	106 dB (IHF – A network)
Load impedance	4 Ω (2 — 8 Ω allowable)
Slew Rate	40 V/μsec.
Separation	75 dB (1 kHz)
Damping factor	140
Headroom margin	0 dB
Input level / impedance	0.4 — 2 V/22 kΩ

Note:
Specifications and the design are subject to possible modification without notice due to improvements.

***Average current drawn**
The average current drawn is nearly the maximum current drawn by this unit when an audio signal is input. Use this value when working out total current drawn by multiple power amplifiers.

3. OPERATION AND CONNECTION

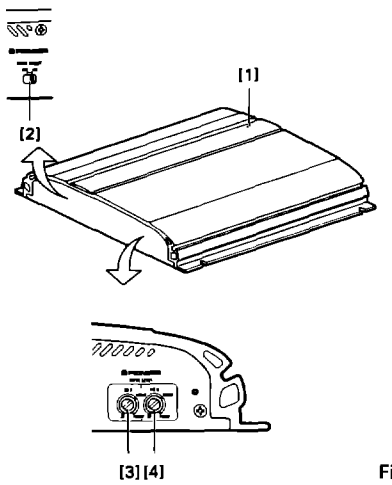


Fig. 1

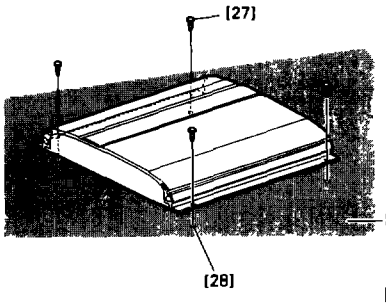


Fig. 3

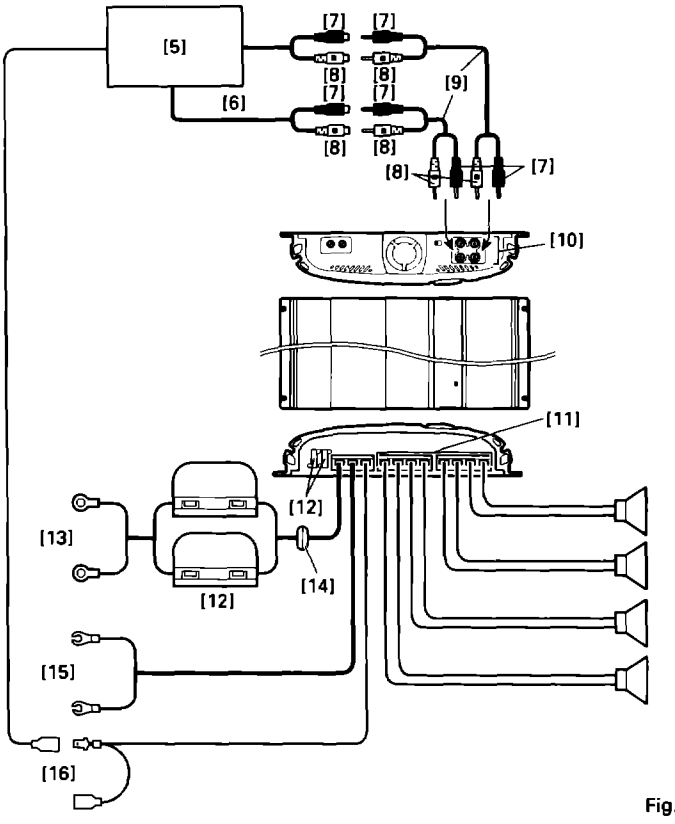


Fig. 2

Setting the Unit

(Fig. 1)

[1] Power Indicator
The power indicator lights when the power is switched on.

[2] RCA Input Select Switch
For two-channel input, slide this switch to the left. For four-channel input, slide this switch to the right.

[3], [4]
Input Level Adjustment
Adjusting the input level controls A and B will help match the output of the car stereo to the Pioneer amplifier. Input level control A is used to adjust the volume of speaker output A; Input level control B is used to adjust the volume of speaker ouput B. Normally, set the switch to the "500 mV" position. If the output is low even when the volume of the car stereo is turned up, turn these controls clockwise. If there is distortion when the volume of the car stereo is turned up, turn these controls counter-clockwise.

- If you only use one input plug, set the input level controls for speaker outputs A and B to the same position.
- Set the input level control to 500 mV when this amplifier is connected to a Pioneer car stereo with RCA output jacks. If the sound is too low or distorts, adjust the input level control.

Connecting the Unit

⚠ CAUTION

- *Remove the negative (–) terminal of the battery to avoid the risk of short-circuit and damage to the unit.*
- *Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.*
- *Do not route wires where they will get hot, for example where the heater will blow over them. If the insulation heats up, it may become damaged, resulting in a short-circuit through the vehicle body.*
- *Make sure that wires will not interfere with moving parts of the vehicle, such as the gearshift, handbrake or seat sliding mechanism.*
- *Do not shorten any wires. Otherwise the protection circuit may fail to work when it should.*
- *Never feed power to other equipment by cutting the insulation of the power supply wire to tap from the wire. The current capacity of the wire will be exceeded, causing overheating.*
- *Always use the special red battery and ground wire [RD-223], which is sold separately. Connect the special red battery wire directly to the car battery positive terminal (+) and the black ground wire to the car body. (The special red battery and ground wire [RD-223] are designed so that the amplifier can be safely connected.)*

⊘ To prevent damage

- *Do not ground the speaker wire directly or connect a negative (–) lead wire for several speakers.*
- *Speakers to be connected to the amplifier should conform with the standards listed below. Otherwise damage will occur to the speaker. The speaker impedance must be 2 to 8 ohms.*

Speaker		Power
Channel	Type	
Four-channel	Sub-woofer	Nominal input: Min. 50 W
	Other than sub-woofer	Max. input: Min. 100 W
Two-channel	Sub-woofer	Nominal input: Min. 150 W
	Other than sub-woofer	Max. input: Min. 300 W
Three-channel (stereo)	Sub-woofer	Nominal input: Min. 50 W
	Other than sub-woofer	Max. input: Min. 100 W
Three-channel (mono)	Sub-woofer	Nominal input: Min. 150 W
	Other than sub-woofer	Max. input: Min. 300 W

- This unit is for vehicles with a 12-volt battery and negative ground. Before installing it in a recreational vehicle, truck or bus, check the battery voltage.
- Install and route the sold separately special red battery wire [RD-223] as faraway as possible from the speaker wires. Install and route the sold separately special red battery wire and ground wire [RD-223], speaker wires and the amplifier as faraway as possible from the antenna, antenna cable and tuner.

⊘ If many units are connected

- *If the car stereo is kept on for a long time while the engine is at rest or idling, the battery may go dead. Turn the car stereo off when the engine is at rest or idling.*
- *If the blue wire of the amplifier is connected to the power terminal through the ignition switch (12 V DC), the amplifier will always be on when the ignition is on—regardless of whether the car stereo is on or off. Because of this, the battery could go dead if the engine is at rest or idle.*

(Fig. 2)

[5] Car stereo with RCA output jacks
[6] External Output
[7] Red
[8] White
[9] Connecting wires with RCA plugs (sold separately)
For details on how to connect to RCA input jacks A and B, see the "Connecting the Speakers and Input wires" section.

[10] RCA input jack A, B
[11] Speaker output terminals
See the "Connecting the Speakers and Input wires" section for speaker connection instructions.
[12] Fuse (Special red battery wire: 30 A × 2, Amplifier: 20 A × 2)
[13] Special red battery wire [RD-223] (sold separately)
After making all other connections to the amplifier, connect the battery wire terminal of the amplifier to the positive (+) terminal of the battery.
[14] Grommet
[15] Ground wire (black) [RD-223] (sold separately)
Connect to metal body or chassis.
[16] Blue [RD-223] (sold separately)
Connect the male terminal of this wire to the blue wire of the car stereo (system remote control terminal). The female terminal can be connected to the auto-antenna relay control terminal. If the car stereo does not have a system remote control terminal, connect the male terminal to the power terminal through the ignition switch.

Connecting the Power Terminal

- *Always use the special red battery and ground wire [RD-223], which is sold separately. Connect the special red battery wire directly to the car battery positive terminal (+) and the black ground wire to the car body. (The special red battery and ground wire [RD-223] are designed so that the amplifier can be safely connected.)*

1. Pass the special red battery wire from the engine compartment to the interior of the vehicle.

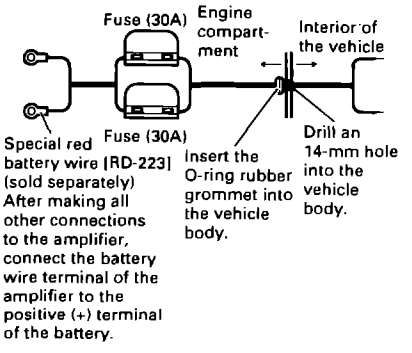

Fuse (30A)
Engine compartment
Interior of the vehicle
Special red battery wire [RD-223] (sold separately) After making all other connections to the amplifier, connect the battery wire terminal of the amplifier to the positive (+) terminal of the battery.
Fuse (30A)
Insert the O-ring rubber grommet into the vehicle body.
Drill an 14-mm hole into the vehicle body.

Fig. 4

2. Twist the sold separately special red battery wire, ground wire and system remote control wire [RD-223].

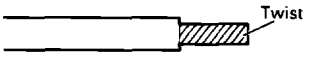


Fig. 5

3. Connect the wires to the terminal.

- Fix the wires securely with the terminal screws.

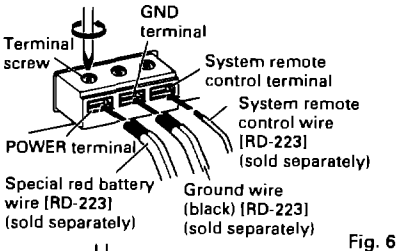

GND terminal
Terminal screw
System remote control terminal
System remote control wire [RD-223] (sold separately)
POWER terminal
Special red battery wire [RD-223] (sold separately)
Ground wire (black) [RD-223] (sold separately)

Fig. 6

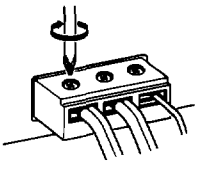


Fig. 7

4. Bundle the wires at a point about 100 mm away from the terminal with a clamper [RD-223].
- Be sure to fix the wires securely with the clamper.

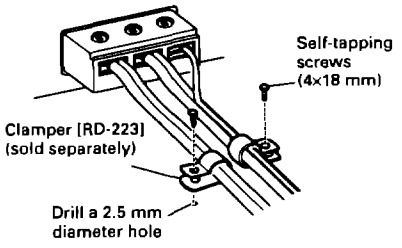


Fig. 8

Connecting the Speakers and Input wires

The speaker output mode can be four-channel, three-channel (stereo + mono) or two-channel (stereo, mono). Connect the speakers according to figures on the following pages.

Four-channel mode

(RCA terminal side)

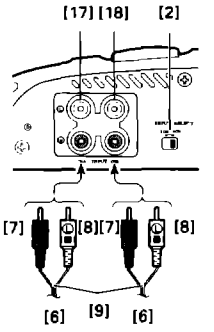


Fig. 9

(Speaker output terminal side)

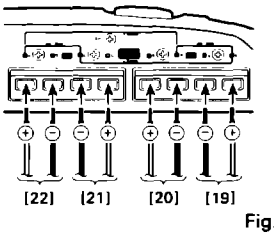


Fig. 10

(Fig. 9, 10)
[2] RCA Input Select Switch
For two-channel input, slide this switch to the left. For four-channel input, slide this switch to the right.
[6] From car stereo (RCA output)
If only one input plug is used, such as when the car stereo has only one output (RCA output), connect the plug to RCA input A, and do not connect any plug to RCA input B.
[7] Red
[8] White
[9] Connecting wires with RCA plugs (sold separately)
[17] RCA input jack A
[18] RCA input jack B
- Connect the front or rear output plugs to jacks [17] or [18], according to your system.

[19] Speaker out B: Speaker (left)
[20] Speaker out B: Speaker (right)
[21] Speaker out A: Speaker (left)
[22] Speaker out A: Speaker (right)

Three-channel mode

(RCA terminal side)

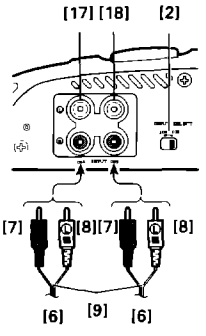


Fig. 11

(Speaker output terminal side)

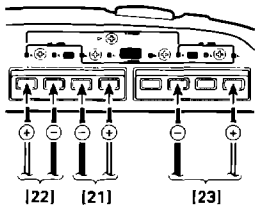


Fig. 12

(Fig. 11, 12)
[2] RCA Input Select Switch
For two-channel input, slide this switch to the left. For four-channel input, slide this switch to the right.
[6] From car stereo (RCA output)
If only one input plug is used, such as when the car stereo has only one output (RCA output), connect the plug to RCA input A, and do not connect any plug to RCA input B.
[7] Red
[8] White
[9] Connecting wires with RCA plugs (sold separately)
[17] RCA input jack A
[18] RCA input jack B
- Connect the front or rear output plugs to jacks [17] or [18], according to your system.

[21] Speaker out A: Speaker (left)
[22] Speaker out A: Speaker (right)
[23] Speaker out B: Speaker (mono)

Two-channel mode (stereo)

(RCA terminal side)

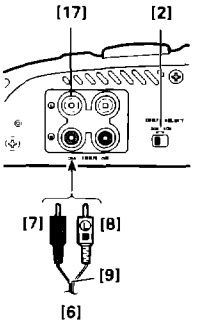


Fig. 13

(Speaker output terminal side)

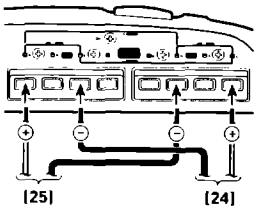


Fig. 14

(Fig. 13, 14)
[2] RCA Input Select Switch
Slide this switch to the left.
[6] From car stereo (RCA output)
[7] Red
[8] White
[9] Connecting wire with RCA plug (sold separately)
[17] RCA input jack A
[24] Speaker (left)
[25] Speaker (right)

Two-channel mode (mono)
(RCA terminal side)

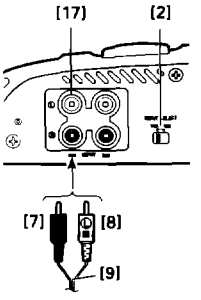


Fig. 15

(Speaker output terminal side)

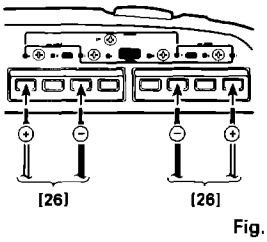


Fig. 16

(Fig. 15, 16)
[2] RCA Input Select Switch
Slide this switch to the left.
[6] From car stereo (RCA output)
[7] Red
[8] White
[9] Connecting wire with RCA plug (sold separately)
[17] RCA input jack A
[26] Speaker (mono)

Connecting the Speaker Output Terminals

1. Expose the end of the speaker wires by about 10 mm using nippers or a cutter and twist it.

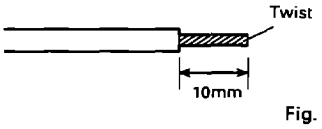


Fig. 17

2. Connect the speaker wires to the speaker output terminals.
- Fix the speaker wires securely with the terminal screws.

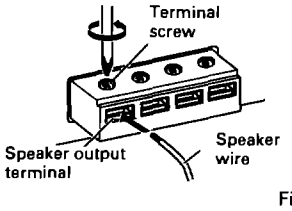


Fig. 18

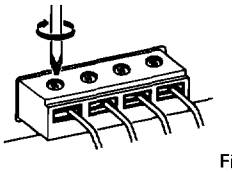


Fig. 19

4. DISASSEMBLY

● Removing the Case and Panel

1.Remove the six screws A, and then remove the case.
2.Remove the four screws B, and then remove the panel.

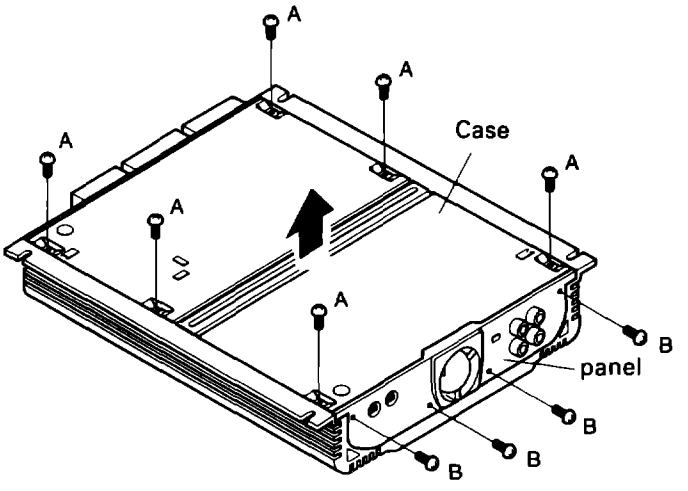


Fig. 20

● Removing the Heat Sink Assy

1.Remove the three screws C.
2.The heat sink assy is closely fit in the heat sink with silicon grease. Insert a screwdriver between the holder and the heat sink assy to remove the heat sink assy.

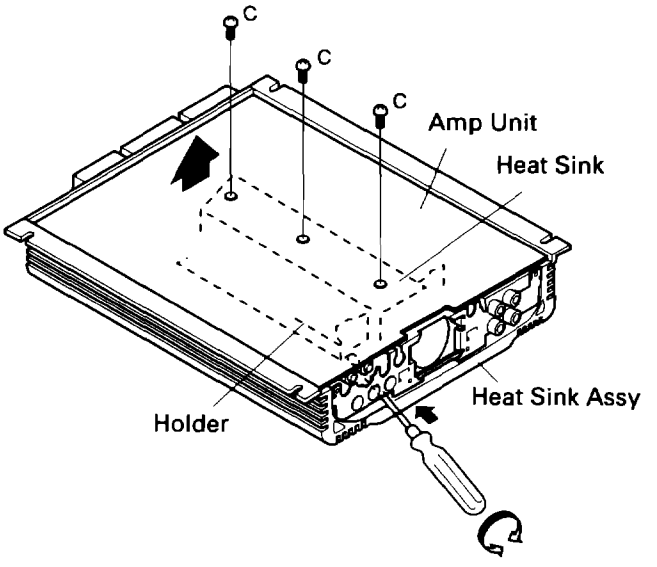


Fig. 21

● Precautions when assembling the Heat Sink Assy

Place the amp unit on the heat sink assy and tighten the three screws C. In order to prevent the screws from loosening, after about five minutes, re-tighten to make sure there is no looseness.

5. ADJUSTMENT

No	Item	Conditions	Adjustment point	Specifications
1	Idling current (adjustment)	Input ; adjust 30 seconds after 1kΩ terminate power is switched on, and within 20 seconds.	VR101,VR151 VR201,VR251	mV Meter : 22±3mV
2	Idling current (checking)	Input ; check 30 seconds after 1kΩ terminate power is switched on.	———	mV Meter : 22±11mV

● **Connection Diagram**

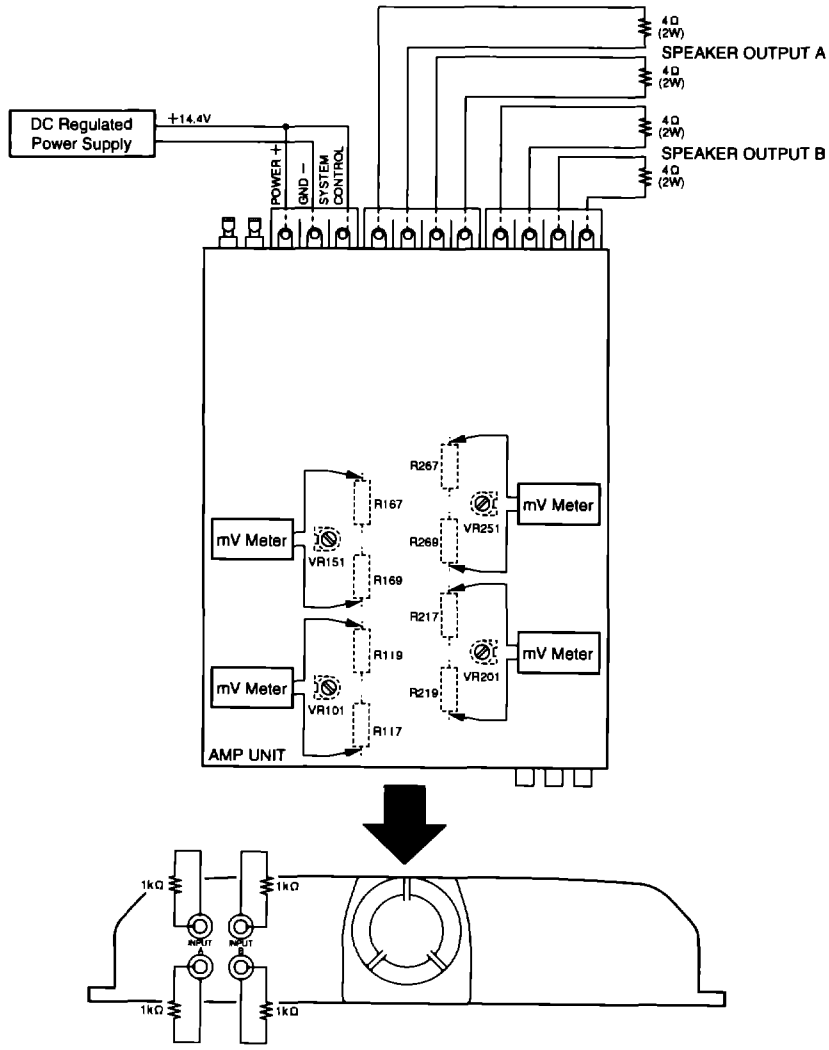
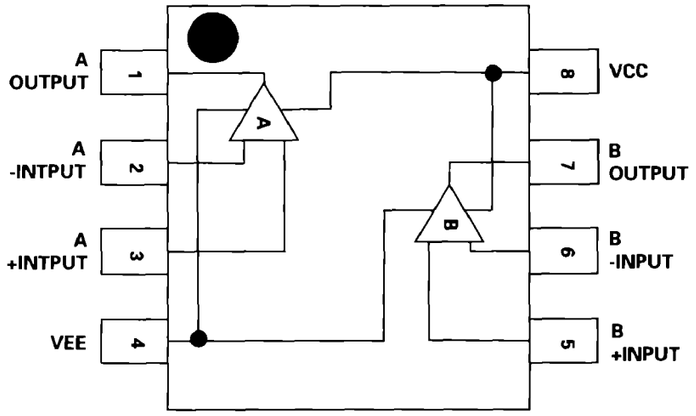


Fig. 22

6. IC INFORMATION

NJM5532D



7. ELECTRICAL PARTS LIST

NOTE:

● Parts whose parts numbers are omitted are subject to being not supplied.

● The part numbers shown below indicate chip components.

Chip Resistor

RS1/○S○○○J,RS1/○○S○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

=====Circuit Symbol & No. Part Name=====	Part No.
Unit Number : HWH1217(RS-A50), HWH0001(GM-A5040))	
Unit Name : Amp Unit	
MISCELLANEOUS	
IC 451 452 453 454	NJM5532S
IC 601	TA8194Z
IC 851 852 853 854	NJM5532D
IC 901	UPC494C
Q 101 102	2SC1845
Q 103 104	2SA992
Q 105 109 155 159 205 209 255 259	2SC1845
Q 106 107 156 157 206 207 256 257	2SA992
Q 108 158 208 258	2SC1568
Q 110 160 210 260	2SC3421
Q 111 161 211 261	2SA1358
Q 112 162 212 262	2SC5101
Q 113 163 213 263	2SA1909
Q 151 152	2SC1845
Q 153 154	2SA992
Q 201 202	2SC1845
Q 203 204	2SA992
Q 251 252	2SC1845
Q 253 254	2SA992
Q 601 606 654 901 915 916	2SC2458
Q 602 651 655 902 913 914	2SA1048
Q 603 605	2SB1243
Q 604	2SD1864
Q 653	2SC3113
Q 656 657 658 659	2SD1768S
Q 903 904	2SB1277
Q 905 906	2SD1919
Q 907 908 909 910 917 918	IRFIZ44G
Q 911	2SC3944
Q 912	2SA1535
D 101 151 201 251	HZS6LB1
D 102 103 104 105 106 107 108 152 153 154	1SS133
D 155 156 157 158 202 203 204 205 206 207	1SS133
D 208 252 253 254 255 256 257 258 603 604	1SS133
D 602	HZS7LB2

=====Circuit Symbol & No. Part Name=====	Part No.
D 605	HZS7LA2
D 606	HZS12LA3
D 651 652 653 654 655 903 908 909	1SS133
D 656	ERA15-02
D 901	RM4Z-LFK5
D 902	HZS18L3
D 904	YG902C2
D 905	YG902N2
D 906 907	HZS16L1
D 910 911	ERA92-02
L 901 Choke Coil 50μH	CTH1144
L 902 903 Choke Coil 100μH	CTH1150
T 901 Transformer	CTT1051
RY 651 652 Relay	CSR1010
TH 601 Thermistor	CCX1027
TH 901 Thermistor	CCX1013
S 851 Switch(Input Select)	CSH1021
S 901 Switch(BFC)	HSH-156
IL 601 Lamp 14V 40mA(GM-A5040)	CEL1410
IL 602 Lamp 14V 40mA	CEL1411
VR 101 151 201 251 Semi-fixed 470Ω(B)	VRTB6VS471
VR 452 Volume 10kΩ(A)	CCS1250
VR 453 Volume 10kΩ(A)	CCS1250
M 601 Fan Motor	CXM1102
EF 901 902 903 904 EMI Filter	CCG-081
FU 901 902 Fuse 20A	HEK0020
Bead Core	CTF1355
RESISTORS	
R 101 107 151 157 201 207 251 257	RD1/4PU243J
R 102 103 152 153 202 203 252 253 606	RD1/4PU101J
R 104 154 204 254	RD1/4PU821J
R 105 155 205 255 609	RD1/4PU152J
R 106 156 206 256	RD1/4PU561J
R 108 158 208 258 910 937	RD1/4PU153J
R 109 159 209 259	RD1/4PU151J
R 110 160 210 260	RD1/4PU821J
R 111 161 211 261	RD1/4PU561J
R 112 162 212 262	RD1/4PU272J
R 113 163 213 263	RD1/4PU560J
R 114 115 164 165 47Ω(1/4W)	CCN1088
R 116 166 216 266 608	RD1/4PU221J
R 117 119 167 169 0.1Ω(5W)	CCN1090
R 121 171 221 271	RD1/4PU100J
R 122 172 222 272 3.3kΩ(1/4W)	CCN1085
R 123 124 173 174 10Ω(1/2W)	CCN1086
R 214 215 264 265 47Ω(1/4W)	CCN1088
R 217 219 267 269 0.1Ω(5W)	CCN1090
R 223 224 273 274 10Ω(1/2W)	CCN1086
R 455 456 461 462 2.2kΩ(1/2W)	CCN1089
R 459 460	RD1/4PU391J
R 463 464	RD1/4PU391J
R 601 602 656 880 882 884 886 906	RD1/4PU103J
R 603 660 663 666 669	RD1/4PU473J
R 604 615	RD1/4PU222J
R 605 614 653 655 905 913 914 915 920 921	RD1/4PU472J
R 607	RD1/4PU223J
R 610	RD1/4PU103J
R 611 657 929 930	RD1/4PU104J
R 612	RD1/4PU221J
R 613	RD1/4PU393J
R 616 903 904 911	RD1/4PU102J
R 651	RD1/4PU221J
R 652	RD1/4PU222J

=====Circuit Symbol & No. Part Name=====	Part No.
R 658 661 664 667	RD1/4PU393J
R 659 662 665 668	RD1/4PU564J
R 851 852 853 854 470Ω(1/4W)	CCN1084
R 855 856 857 858	RD1/4PU333J
R 859 860 861 862 863 864 865 866	RN1/4PC1002D
R 871 872 873 874 875 876 877 878	RN1/4PC5101D
R 879 881 883 885 933	RD1/4PU123J
R 901	RD1/4PU105J
R 902	RS1/2P220JL
R 907	RD1/4PU183J
R 912	RD1/4PU103J
R 916 917	RD1/4PU332J
R 918 919	RS1/2P100JL
R 922 923	RD1/4PU472J
R 924 925 926 927 940 941	RD1/4PU820J
R 931 932	RD1/4PU472J
R 934 936	RD1/4PU182J
R 935	RD1/4PU223J
R 938 939 47Ω(1/4W)	CCN1088
R 942 943 33Ω(1/2W)	CCN1087
R 944 945	RD1/4PU333J
CAPACITORS	
C 101 151 201 251 47μF/50V	CCH1252
C 102 152 202 252	CQPA271G2A
C 103 153 203 253	CQPA102G2A
C 104 154 204 254	CEAS100M16
C 105 155 205 255 100μF/10V	CCH1238
C 106 107 156 157 206 207 256 257	CMA150J2H
C 108 158 208 258 608	CFTLAH104J50
C 109 159 209 259	CFTLAH333J50
C 110 160 210 260	CQMA102J50
C 111 112 161 162 211 212 261 262	CMA101J2H
C 603 609 612	CQMA103J50
C 604	CEAS470M16
C 605	CEAS220M16
C 606 607	CEAS331M16
C 610 906	CEAS101M16
C 651 220μF/10V	CCH1036
C 851 852 853 854	CQMA471J50
C 855 856 857 858 10μF/16V	CCH1241
C 859 860 861 862 908 923	CQMA472J50
C 863 864 865 866 867 868 869 870 871 872	CCPSL470J50L
C 873 874	CCPSL470J50L
C 901	CFTLAH224J50
C 902 4700μF/16V	CCH1206
C 903	CEAS010M50
C 904	CEAS221M10
C 905	CEAS470M16
C 907 4700μF/16V	CCH1266
C 909 910 3300μF/35V	CCH1205
C 911 912 3300μF/35V	CCH1265
C 913 914	CEAS0R1M50
C 915 916 47μF/50V	CCH1253
C 917 918	CQPA102G2A
C 919 920	CFTNA474J50
C 921 922 470μF/25V	CCH1251
C 924 925 1000μF/50V	CCH1254
C 928 930 998 999 0.1μF	CCE1025
C 929 931 0.001μF	CCF1001

8. SCHEMATIC CIRCUIT DIAGRAM

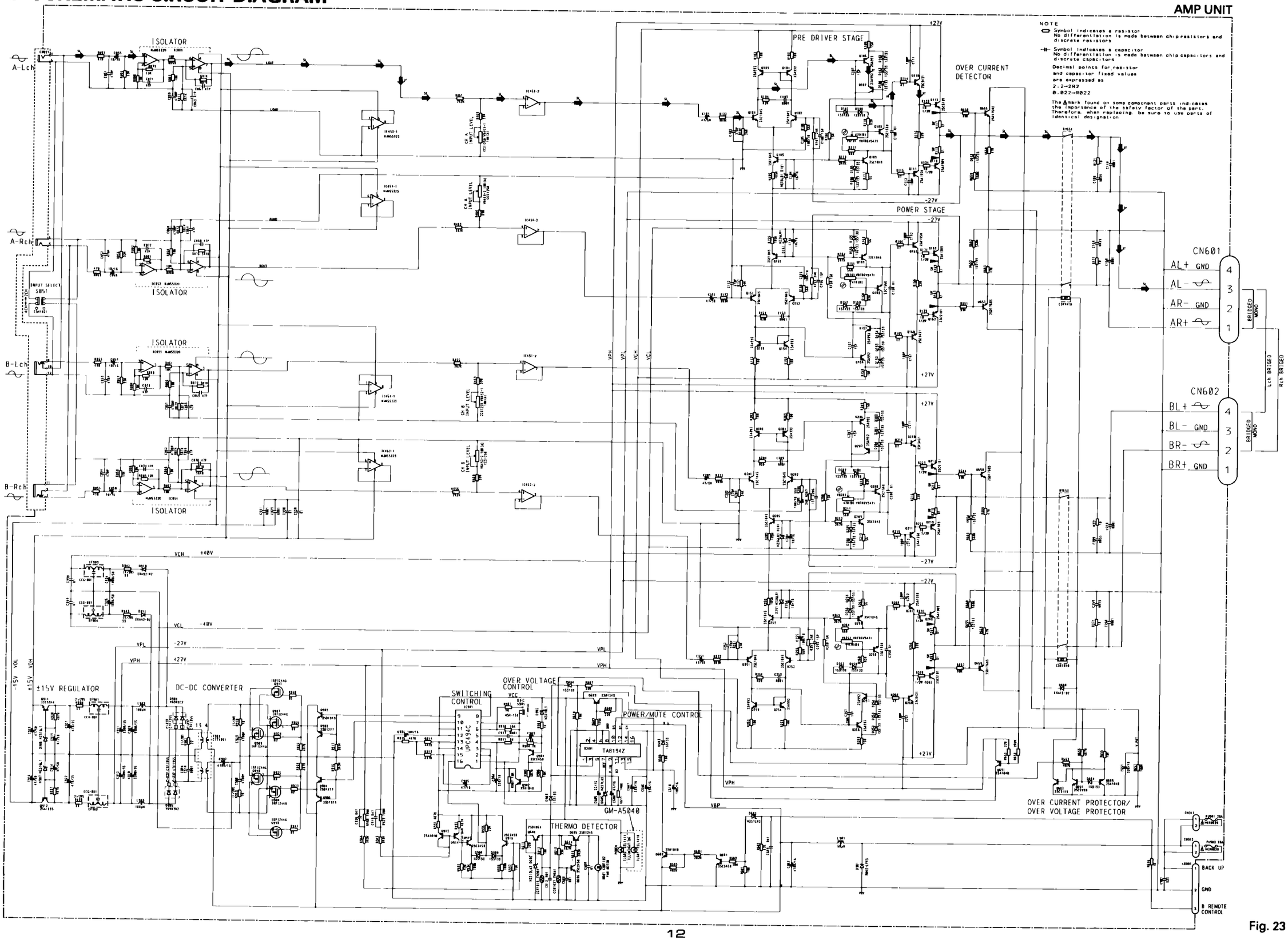


Fig. 23

9. CONNECTION DIAGRAM

NOTE:
The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

AMP UNIT

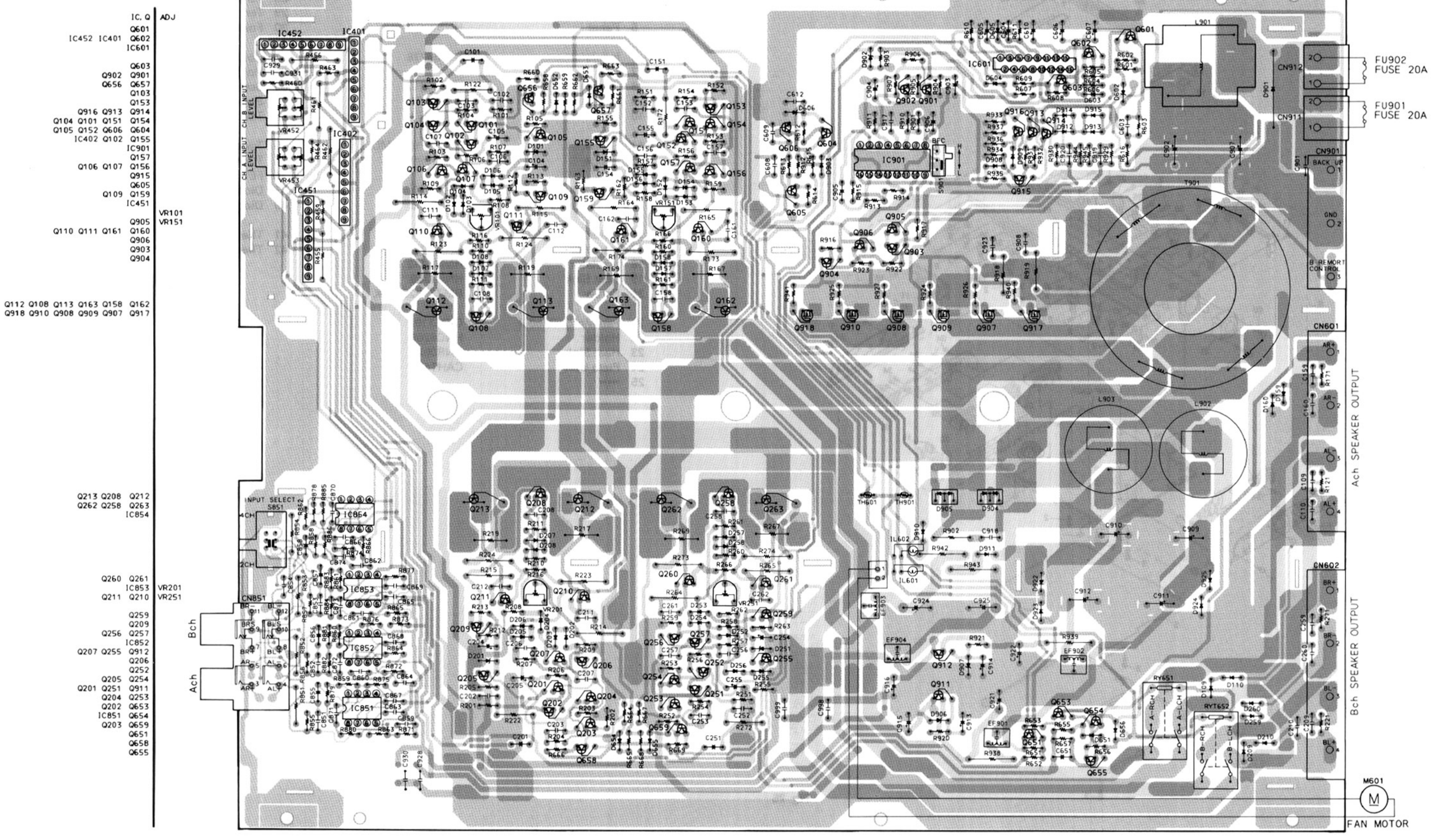


Fig. 24

10. EXPLODED VIEW AND PARTS LIST

●RS-A50/X1H/UC

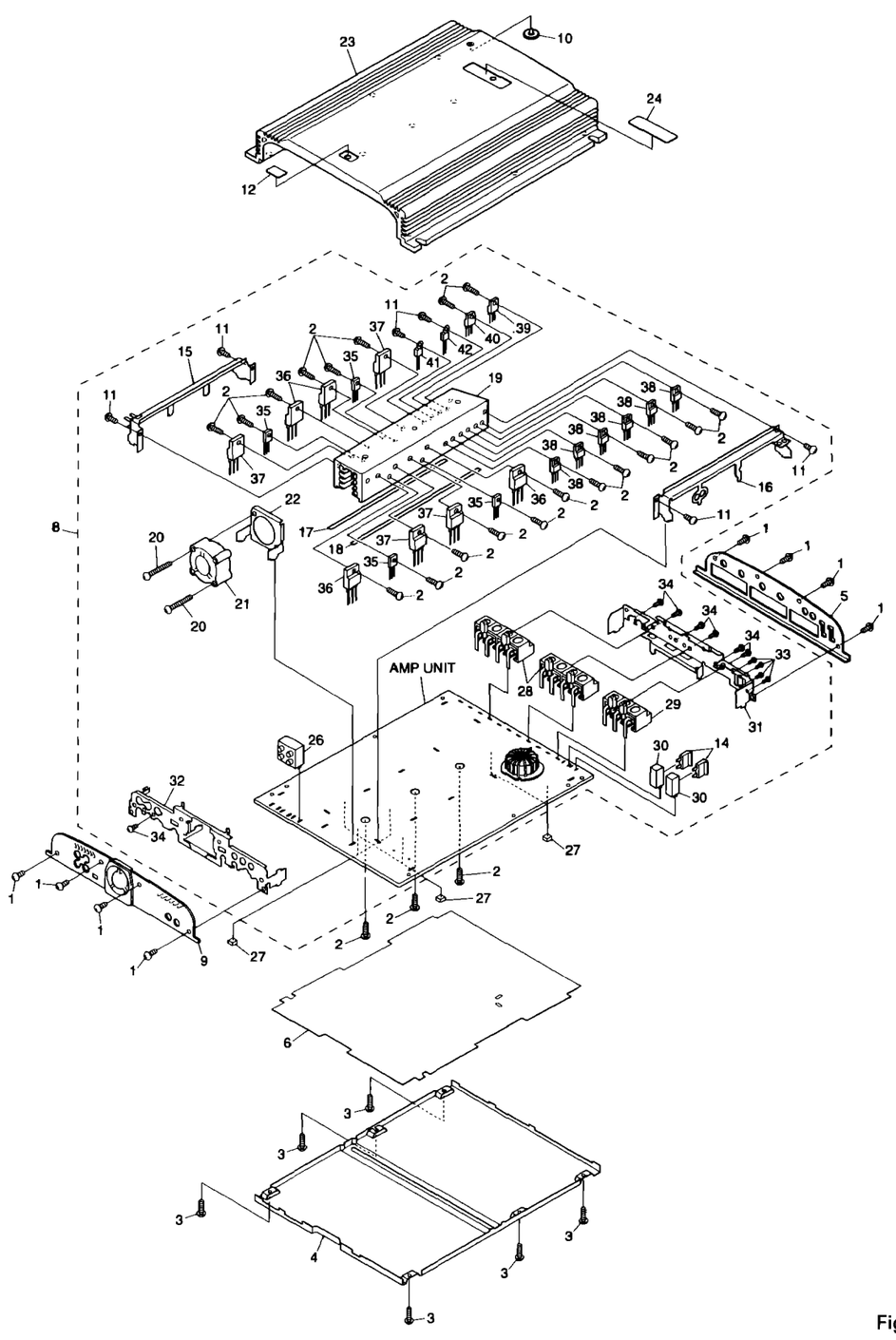


Fig. 25

● Parts List (RS-A50/X1H/UC)

Mark	No.	Description	Part No.
	1	Screw	BSZ30P050FZK
	2	Screw	BBZ30P100FMC
	3	Screw	BBZ30P100FCU
	4	Case	HNB2005
	5	Panel	HNB2007
	6	Insulator	HNM4278
	7	•••••	
	8	Amp Unit	HWH1217
	9	Panel Unit	HXA8461
	10	Lens	CNS2053
	11	Screw	BBZ30P060FMC
	12	Badge	CAH1399
	13	•••••	
	14	Fuse (20A)	HEK0020
	15	Holder	HNC6265
	16	Holder	HNC6267
	17	Insulator	HNM4284
	18	Insulator	HNM4412
	19	Heat Sink	HNR1359
	20	Screw	BMZ30P230FZK
	21	Fan Motor (M601)	CXM1102
	22	Holder	HNC6266
	23	Heat Sink	HNR0021
	24	Plate Unit	CAH1427
	25	•••••	
	26	Pin Jack (CN851)	CKB1029
	27	Spacer	HNM0006
	28	Terminal (CN601,602)	CKE1039
	29	Terminal (CN901)	CKE1041
	30	Fuse Holder (CN911,912)	CKR1011
	31	Holder	HNC6269
	32	Holder	HNC6268
	33	Screw	PPZ20P080FZK
	34	Screw	PPZ30P080FZK
	35	Transistor(Q108,158,208,258)	2SC1568
	36	Transistor(Q112,162,212,262)	2SC5101
	37	Transistor(Q113,163,213,263)	2SA1909
	38	FET (Q907-910,917,918)	IRFIZ44G
	39	Diode (D904)	YG902C2
	40	Diode (D905)	YG902N2
	41	Thermistor (TH601)	CCX1027
	42	Thermistor (TH901)	CCX1013

● **GM-A5040/X1H/UC**

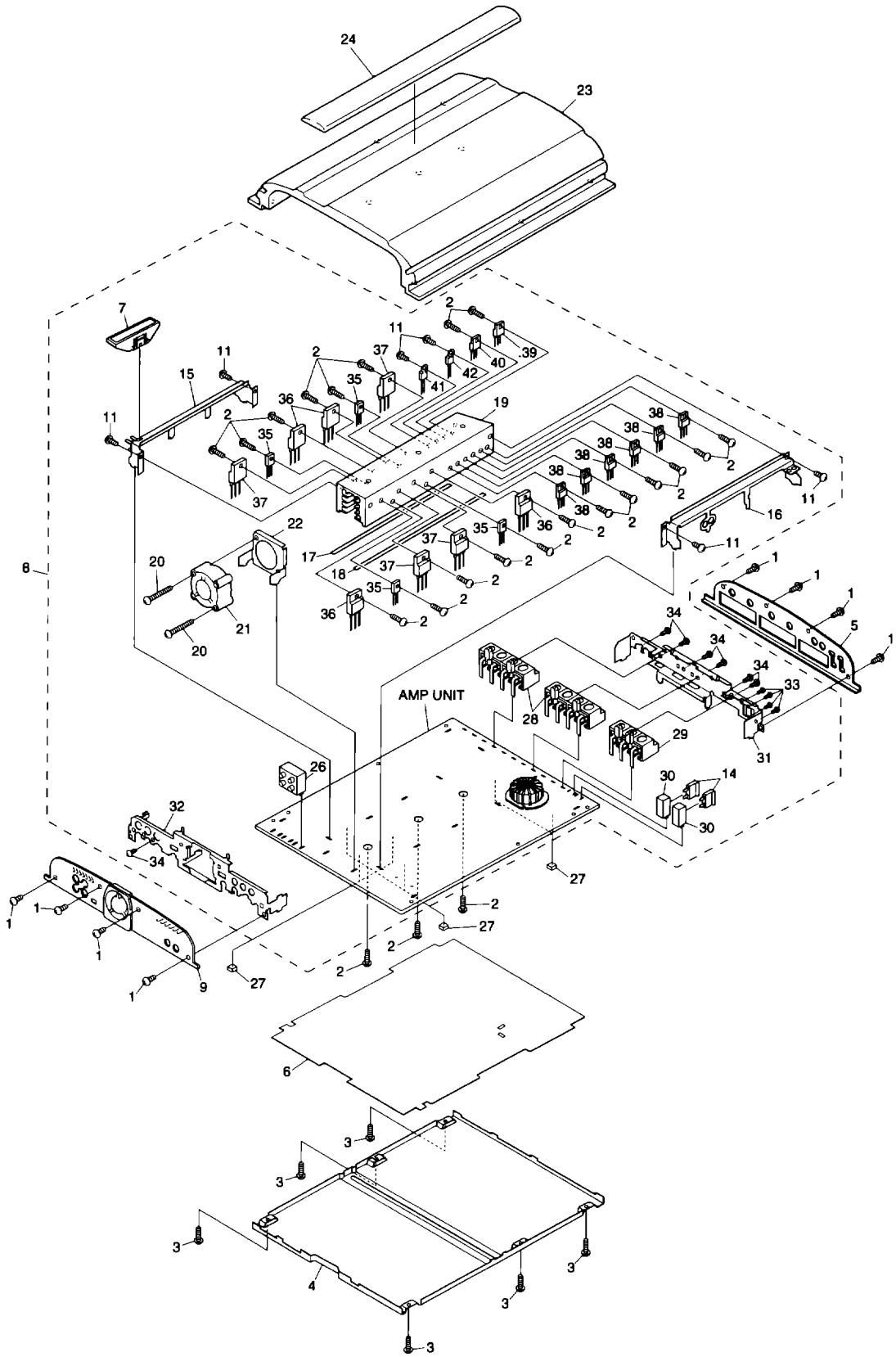


Fig. 26

● Parts List (GM-A5040/X1H/UC)

Mark	No.	Description	Part No.
	1	Screw	BSZ30P050FZK
	2	Screw	BBZ30P100FMC
	3	Screw	BBZ30P100FMC
	4	Case	HNB1920
	5	Panel	HNB1948
	6	Insulator	HNM4278
	7	Housing	HNV4180
	8	Amp Unit	HWH0001
	9	Panel Unit	HXA0019
	10	•••••	
	11	Screw	BBZ30P060FMC
	12	•••••	
	13	•••••	
	14	Fuse(20A)	HEK0020
	15	Holder	HNC5786
	16	Holder	HNC5853
	17	Insulator	HNM4284
	18	Insulator	HNM4412
	19	Heat Sink	HNR1359
	20	Screw	BMZ30P230FZK
	21	Fan Motor(M601)	CXM1102
	22	Holder	HNC5787
	23	Heat Sink	HNR0020
	24	Panel Unit	HXA0020
	25	•••••	
	26	Pin Jack	CKB1029
	27	Spacer	HNM0006
	28	Terminal	CKE1039
	29	Terminal	CKE1041
	30	Fuse Holder	CKR1011
	31	Holder	HNC5792
	32	Holder	HNC5793
	33	Screw	PPZ20P080FZK
	34	Screw	PPZ30P080FZK
	35	Transistor(Q108,158,208,258)	2SC1568
	36	Transistor(Q112,162,212,262)	2SC5101
	37	Transistor(Q113,163,213,263)	2SA1909
	38	FET(Q907-910,917,918)	IRFIZ44G
	39	Diode(D904)	YG902C2
	40	Diode(D905)	YG902N2
	41	Thermistor(TH601)	CCX1027
	42	Thermistor(TH901)	CCX1013

11. PACKING METHOD

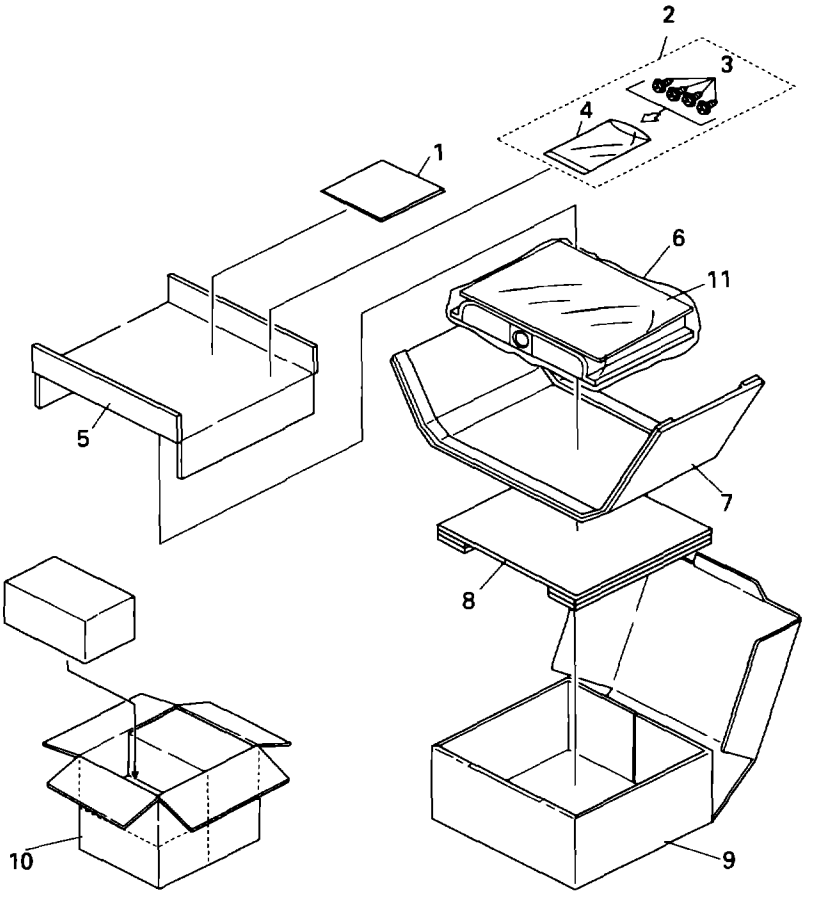


Fig. 27

● **Parts List (RS-A50/X1H/UC)**

Mark No.	Description	Part No.
1-1	Owner's Manual	HRD0027
1-2	Warranty Card	HRY1070
1-3	Polyethylene Bag	E36-618
2	Screw Assy	HEA0003
3	Screw	BYC40P180FZK
4	Polyethylene Bag	HEG0011
5	Top Tray	HHP0005
6	Polyethylene Bag	HEG0012
7	Protector	HHP1728
8	Bottom Spacer	HHW0003
9	Carton	HHG0068
10	Contain Box	HHL0068
11	Cushion	HNM0013

● **Owner's Manual**

Part No.	Model	Language
HRD0027	RS-A50/X1H/UC	English,French
HRD0024	GM-A5040/X1H/UC	English,French

- The GM-A5040/X1H/UC Parts List enumerate the parts which differ from those enumerated in the RS-A50/X1H/UC Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The RS-A50/X1H/UC Parts List is given on page 19.

Mark No.	Description	RS-A50/X1H/UC Part No.	GM-A5040/X1H/UC Part No.
1-1	Owner's Manual	HRD0027	HRD0024
1-3	Polyethylene Bag	E36-618	•••••
9	Carton	HHG0068	HHG0069
10	Contain Box	HHL0068	HHL0069
11	Cushion	HNM0013	•••••